

Title (en)

APPARATUS FOR DETECTING A STEERING ANGLE AND A STEERING ANGULAR VELOCITY OF A VEHICLE

Publication

EP 0117611 A3 19850619 (EN)

Application

EP 84300310 A 19840118

Priority

JP 1195983 U 19830129

Abstract (en)

[origin: EP0117611A2] An apparatus for detecting a steering angle and a steering angular velocity of a steering system mounted in a vehicle. The apparatus has a sensor (16) mounted with respect to a steering column tube (18) on a lower steering column tube (20) secured to the lower end of the tube (18) coaxially therewith and a disc (14) secured onto the outer periphery of a steering shaft (12). The steering sensor has a projecting form in which a light emitting element (160) and a light receiving element (162) are provided. The projecting form of the sensor is designed so as to prevent the light emitting element (160) and the light receiving element (162) from contacting the disc (14).

IPC 1-7

B62D 1/16; B62D 15/02; B62D 5/00

IPC 8 full level

B62D 1/16 (2006.01); **B62D 15/02** (2006.01); **G01B 21/22** (2006.01)

CPC (source: EP US)

B62D 15/02 (2013.01 - EP US)

Citation (search report)

- [A] GB 2024122 A 19800109 - TOWMOTOR CORP
- [A] GB 1417788 A 19751217 - GILBERT BARKER MFG CO
- [A] FR 2313593 A1 19761231 - PITNER ALFRED [FR]
- [A] GB 1500111 A 19780208 - CAM GEARS LTD
- [A] GB 896550 A 19620516 - FORD MOTOR CO
- [XP] PATENT ABSTRACTS OF JAPAN, vol. 7, no. 79, (M-204)(1224), 3rd February 1984; & JP-A-58-183358 (FUJI) 26-10-1983 (CAT. P,A) * Abstract *
- [L] PATENT ABSTRACTS OF JAPAN, vol. 8, no. 26, (M-273)(1463), 3rd February 1984; JP-A-58-183358 /FUJI) (CAT.P,A) 26-10-1983 (CAT. P,A)

Cited by

EP0377097A1; EP2684773A3; EP1207096A3; GB2188295A; US6983647B2; US8899621B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0117611 A2 19840905; **EP 0117611 A3 19850619**; JP S59117911 U 19840809; US 4683375 A 19870728

DOCDB simple family (application)

EP 84300310 A 19840118; JP 1195983 U 19830129; US 88343886 A 19860714